Profile Management and CLI Navigation

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Scope

This document applies to all Zhone products that utilize the standard Zhone Command Line Interface (CLI). These units will have a CLI as shown below:

```
zSH>new ip-interface-record 1/1/1/0/ip
```

Introduction

The Zhone CLI is profile based. This document will describe the 4 basic navigation commands (delete, get, new, and update) and how they are used in conjunction with the configuration profiles.

Requirements

Hardware:

Any Zhone product utilizing the Zhone CLI (BAN, Z-Edge 64, Z-Plex 10, etc.)

Software:

Access to the Zhone CLI via a craft or Telnet connection

Configuration Steps

1. Basic CLI Navigation (list and lst)

1a. There are two basic commands that will allow easy navigation through the profiles that need to be configured on any system. These two commands will display a list of all the configurable profiles (list) and system information and navigation commands (lst)

```
zSH> list
aal2-audio-profile: audioProfileIdentifier/apIndex
aal2-cid-profile: ifIndex/vpi/vci/cid
aal2-vcl-profile: ifIndex/vpi/vci
atm-cc: atmVcCrossConnectIndex
atm-if: ifIndex
atm-if-stats: ifIndex
atm-traf-descr: index
atm-traf-descr-idx-next: index
```

```
atm-traf-descr-stats: index
atm-vcl: ifIndex/vpi/vci
atm-vcl-stats: ifIndex/vpi/vci
card-profile: shelf/slot/cardType
dhcp-server-group: index
dhcp-server-host: index
```

```
zSH> lst
?                                adduser
ata                              bootstate
cd                               changepass
commit                           copy
create                           del
delete                           deleteuser
dir                              dump
eeshow                           featurebitdisplay
featurebitset                    fhrameping
file                             find
get                              help
history                          ifxlate
image                            interface
list                             load
log                              logout
lst                              mkdir
```

2. Configuration Commands for Profiles

2a. New

The new command is used to create a new configuration profile. This is most often used in conjunction with user profiles and associated IP addresses.

```
zSH> new ip-interface-record 1/12/1/0/ip
Please provide the following: [q]uit.
lgid: -------------->  {0}:
vpi: --------------->  {0}:
vci: --------------->  {0}:
rdindex: ----------->  {1}:
dhcp: -------------->  {none}:
addr: -------------->  {0.0.0.0}: 192.168.100.1
netmask: ----------->  {0.0.0.0}: 255.255.255.0
bcastaddr: --------->  {0.0.0.0}: 192.168.100.255
destaddr: ---------->  {0.0.0.0}:
farendaddr: -------->  {0.0.0.0}:
mru: --------------->  {0}: 1500
reasmmaxsize: ------>  {0}:
ingressfiltername: ->  {}:
egressfiltername: -->  {}:
pointtopoint: ------>  {no}:
mcastenabled: ------>  {yes}:
ipfwdenabled: ------>  {yes}:
mcastfwdenabled: --->  {yes}:
natenabled: -------->  {no}:
bcastenabled: ------>  {yes}:
```

2b. Update

The update command is used to edit or append existing profiles. A good example of the update command is changing IP address of a previously configured profile.

```
zSH> update ip-interface-record 1/12/1/0/ip
Please provide the following: [q]uit.
lgid: -------------->  {0}:
vpi: --------------->  {0}:
vci: --------------->  {0}:
rdindex: ----------->  {1}:
dhcp: -------------->  {none}:
addr: -------------->  {192.186.100.1}: 192.186.200.1
netmask: ----------->  {255.255.255.0}:
bcastaddr: --------->  {192.168.100.255}: 192.168.200.1
destaddr: ---------->  {0.0.0.0}:
farendaddr: -------->  {0.0.0.0}:
mru: --------------->  {1500}:
reasmmaxsize: ------>  {0}:
ingressfiltername: ->  {}:
egressfiltername: -->  {}:
pointtopoint: ------>  {no}:
mcastenabled: ------>  {yes}:
ipfwdenabled: ------>  {yes}:
mcastfwdenabled: --->  {yes}:
natenabled: -------->  {no}:
bcastenabled: ------>  {yes}:
```

2c. Get

The get command will display the contents of a previously configured profile. For example:

```
zSH> get ip-interface-record 1/12/1/0/ip
lgid: -------------->  {0}
vpi: --------------->  {0}
vci: --------------->  {0}
rdindex: ----------->  {1}
dhcp: -------------->  {none}
addr: -------------->  {192.168.200.1}
netmask: ----------->  {255.255.255.0}
bcastaddr: --------->  {192.168.200.255}
destaddr: ---------->  {0.0.0.0}
farendaddr: -------->  {0.0.0.0}
mru: --------------->  {1500}
reasmmaxsize: ------>  {0}
ingressfiltername: ->  {}
egressfiltername: -->  {}
pointtopoint: ------>  {no}
mcastenabled: ------>  {yes}
ipfwdenabled: ------>  {yes}
mcastfwdenabled: --->  {yes}
natenabled: -------->  {no}
bcastenabled: ------>  {yes}
```

2d. Delete

The delete command is used to delete an existing configuration profile. An example of this command is listed below.

```
zSH> delete ip-interface-record 1/12/1/0/ip
OK to delete this record? [yes] [no]: yes
Record at (1/12/1/0/ip) was deleted
```

2e. List

Use the list command in conjunction with a profile type to get a list of all configured profiles. Additionally, as described in step 1, the list command by itself will display a list of all profile types.

```
zSH> list ip-interface-record
ip-interface-record  1/3/1/0/ip
ip-interface-record  1/14/1/0/ip
ip-interface-record  1/12/0/1/ip
ip-interface-record  1/12/0/2/ip
```